

USSN 10/738,413

EXHIBIT 1

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siRNA Target Finder

1. Paste your mRNA sequence (5' to 3'): (Please ensure that sequence contains no numbers.)

```
tattgagttcttcaaacattgtagcctcttatggctctgagaaataactaccttaaac  
ccataatctttaacttccataaactttcttaataagagaagctctattctgacactac  
ctctcatttgcagggtcaaatcatcattagttttagtctattaactgggttgcttag  
gtcaggcattattattactaaccctattgttaataattcaccataagaattaaactatt  
aatgggaatagagttttcactttaacataggcctatcccactggtgggatacgagcca
```

2. End my siRNAs with:

☒ TT ☐ UU

3. G/C content maximum (optional):

4. Sequence constraints to avoid:

- ☐ 4 or more A's or T's in a row (recommended for vectors with pol III promoter)
- ☐ 4 or more G's or C's in a row (recommended for chemically synthesized siRNA)

Target sequence 1: AAACATTGTAGCCTCTTTATG**Blast search** (in new window)

Position in gene sequence: 14

GC content: 33.3%

Sense strand siRNA: ACAUUGUAGCCUCUUUAUGtt

Antisense strand siRNA: CAUAAAGAGGCUACAAUGUt

[View siRNA details](#)[View corresponding Silencer® siRNA Construction Kit Templates](#)[View corresponding insert sequences for an siRNA expression vector \(e.g., pSilencer™\)](#)**Target sequence 2:** AAATAACTACCTTAAACCCAT**Blast search** (in new window)

Position in gene sequence: 44

GC content: 28.6%

Sense strand siRNA: AUAACUACCUUAAACCCAUtt

Antisense strand siRNA: AUGGGUUUAAGGUAGUUAUtt

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USSN 10/738,413

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Blast search (in new window)

Position in gene sequence: 48

GC content: 33.3%

Sense strand siRNA: CUACCUUAAACCCAUAAUcTt

Antisense strand siRNA: GAUUAUGGGUUUAAGGUAGt

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Target sequence 4: AAACCCATAATCTTTAATACT

Blast search (in new window)

Position in gene sequence: 57

GC content: 23.8%

Sense strand siRNA: ACCCAUAAUCUUUAAUACUtt

Antisense strand siRNA: AGUAUUAAGAUUAUGGGUtt

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Target sequence 5: AATCTTTAATACTTCCTAAAC

Blast search (in new window)

Position in gene sequence: 65

GC content: 23.8%

Sense strand siRNA: UCUUUAUACUCCUAAAcTt

Antisense strand siRNA: GUUUAGGAAGUAUUAAGAGt

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Target sequence 6: AATACTTCCTAAACTTTCTTA

Blast search (in new window)

Position in gene sequence: 72

GC content: 23.8%

Sense strand siRNA: UACUCCUAAACUUUCUUAtt

Antisense strand siRNA: UAAGAAAGUUUAGGAAGUAtt

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Target sequence 7: AAACCTTCTTAATAAGAGAAG

Blast search (in new window)

Position in gene sequence: 82

GC content: 23.8%

Sense strand siRNA: ACUUUCUAAUAAAGAGAAGt

Antisense strand siRNA: CUUCUCUUAUUAAGAAAGUtt

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Target sequence 8: AATAAGAGAAGCTCTATTCTT

Blast search (in new window)

Position in gene sequence: 92

GC content: 33.3%

Sense strand siRNA: UAAGAGAAGCUCUAUUCUtt

Antisense strand siRNA: AGGAUAGAGCUUCUCUUAtt

USSN 10/738,413

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Target sequence 9: AAGAGAAGCTCTATTCTGAC

Blast search (in new window)

Position in gene sequence: 95

GC content: 42.9%

Sense strand siRNA: GAGAAGCUCUAUCCUGACTt

Antisense strand siRNA: GUCAGGAUAGAGCUUCUCtt

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Target sequence 10: AAGCTCTATTCTGACACTAC

Blast search (in new window)

Position in gene sequence: 100

GC content: 42.9%

Sense strand siRNA: GCUCUAUCCUGACACUACTt

Antisense strand siRNA: GUAGUGUCAGGAUAGAGCtt

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Target sequence 11: AAGGTCAAATCATCATTAGTT

Blast search (in new window)

Position in gene sequence: 132

GC content: 28.6%

Sense strand siRNA: GGUCAAUUAUUAUAGUUt

Antisense strand siRNA: AACUAAUGAUGAUUUGACctt

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Target sequence 12: AAATCATCATTAGTTTGTAG

Blast search (in new window)

Position in gene sequence: 138

GC content: 23.8%

Sense strand siRNA: AUCAUCAUAGUUUUGUAGtt

Antisense strand siRNA: CUACAAAACUAAUGAUGAUtt

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Target sequence 13: AACTGGGTTTGCTTAGGTCAG

Blast search (in new window)

Position in gene sequence: 165

GC content: 47.6%

Sense strand siRNA: CUGGGUUUGCUUAGGUCAGtt

Antisense strand siRNA: CUGACCUAAGCAAACCCAGtt

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USSN 10/738,413

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Target sequence 14: AACCTTATTGTTAATATTCTA

Blast search (in new window)

Position in gene sequence: 200

GC content: 19%

Sense strand siRNA: CCUUAUUUGUUAUUAUUCUAtt

Antisense strand siRNA: UAGAAUAUUAACAAUAAGGtt

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Target sequence 15: AATATTCTAACCATAAGAATT

Blast search (in new window)

Position in gene sequence: 212

GC content: 19%

Sense strand siRNA: UAUUCUAACCAUAAGAAUtt

Antisense strand siRNA: AAUUCUUAUGGUUAGAAUAtt

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Target sequence 16: AACCATAAGAATTAACTATT

Blast search (in new window)

Position in gene sequence: 220

GC content: 19%

Sense strand siRNA: CCAUAAGAAUUAACUAAUtt

Antisense strand siRNA: AAUAGUUUAAUUCUUAUGGtt

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Target sequence 17: AAGAATTAACTATTAATGGT

Blast search (in new window)

Position in gene sequence: 226

GC content: 19%

Sense strand siRNA: GAAUUAACUUAUUAUUGGUtt

Antisense strand siRNA: ACCAUUAAUAGUUUAAUUCtt

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Target sequence 18: AATTAACTATTAATGGTGAA

Blast search (in new window)

Position in gene sequence: 229

GC content: 19%

Sense strand siRNA: UUAACUUAUUAUUGGUGAAtt

Antisense strand siRNA: UUCACCAUUAUAGUUUAAtt

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Target sequence 19: AACTATTAATGGTGAATAGA

Blast search (in new window)

Position in gene sequence: 233

GC content: 23.8%

USSN 10/738,413

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Sense strand siRNA: ACUAUUAUUGGUGAAUAGAtt

Antisense strand siRNA: UCUAUUCACCAUUAUAGUtt

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Target sequence 20: AATGGTGAATAGAGTTTTCA

[Blast search](#) (in new window)

Position in gene sequence: 241

GC content: 28.6%

Sense strand siRNA: UGGUGAAUAGAGUUUUUUCAtt

Antisense strand siRNA: UGAAAAACUCUAUUCACCAtt

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Target sequence 21: AATAGAGTTTTTCACTTTAAC

[Blast search](#) (in new window)

Position in gene sequence: 248

GC content: 23.8%

Sense strand siRNA: UAGAGUUUUUCACUUUAActt

Antisense strand siRNA: GUUAAAGUGAAAAACUCUAtt

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Target sequence 22: AACATAGGCCTATCCCACTGG

[Blast search](#) (in new window)

Position in gene sequence: 266

GC content: 52.4%

Sense strand siRNA: CAUAGGCCUAUCCCAUGGtt

Antisense strand siRNA: CCAGUGGGAUAGGCCUAUGtt

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Target sequence 23: AATTCGAAAGAAAAGTCAGTC

[Blast search](#) (in new window)

Position in gene sequence: 300

GC content: 33.3%

Sense strand siRNA: UUCGAAAGAAAAGUCAGUCtt

Antisense strand siRNA: GACUGACUUUUCUUUCGAAtt

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Target sequence 24: AAAGAAAAGTCAGTCATGTGC

[Blast search](#) (in new window)

Position in gene sequence: 306

GC content: 38.1%

Sense strand siRNA: AGAAAAGUCAGUCAUGUGCtt

Antisense strand siRNA: GCACAUGACUGACUUUUCUtt

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USSN 10/738,413

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Target sequence 25: AAAAGTCAGTCATGTGCTTTT

Blast search (in new window)

Position in gene sequence: 310

GC content: 33.3%

Sense strand siRNA: AAGUCAGUCAUGUGCUUUUtt

Antisense strand siRNA: AAAAGCACAUACUGACUtt

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Target sequence 26: AAGTCAGTCATGTGCTTTTCA

Blast search (in new window)

Position in gene sequence: 312

GC content: 38.1%

Sense strand siRNA: GUCAGUCAUGUGCUUUUCatt

Antisense strand siRNA: UGAAAAGCACAUACUGACtt

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Target sequence 27: AAAGCTTAAGATAAAGACTAA

Blast search (in new window)

Position in gene sequence: 340

GC content: 23.8%

Sense strand siRNA: AGCUUAAGAUAAAGACUAAtt

Antisense strand siRNA: UUAGUCUUUAUCUUAAGCtt

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Target sequence 28: AAGATAAAGACTAAAAGTGTT

Blast search (in new window)

Position in gene sequence: 347

GC content: 23.8%

Sense strand siRNA: GAUAAAGACUAAAAGUGUtt

Antisense strand siRNA: AACACUUUUAGUCUUUAUctt

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Target sequence 29: AAAGACTAAAAGTGTGTTGATG

Blast search (in new window)

Position in gene sequence: 352

GC content: 28.6%

Sense strand siRNA: AGACUAAAAGUGUUUGAUGtt

Antisense strand siRNA: CAUCAAACACUUUUAGUCtt

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Target sequence 30: AAAAGTGTGTTGATGCTGGAGG

Blast search (in new window)

Position in gene sequence: 359

GC content: 42.9%

USSN 10/738,413

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Antisense strand siRNA: CCUCCAGCAUCAAAACACUtt

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Target sequence 31: AAGTGTGTGATGCTGGAGGTG

[Blast search](#) (in new window)

Position in gene sequence: 361

GC content: 47.6%

Sense strand siRNA: GUGUUUGAUGCUGGAGGUGtt

Antisense strand siRNA: CACCUCCAGCAUCAAAACACTt

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Target sequence 32: AAGACATGTGATAATCACTGT

[Blast search](#) (in new window)

Position in gene sequence: 408

GC content: 33.3%

Sense strand siRNA: GACAUGUGAUAAUCACUGUtt

Antisense strand siRNA: ACAGUGAUUAUCACAUGUctt

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Target sequence 33: AATCACTGTAGTAGTAGCTGG

[Blast search](#) (in new window)

Position in gene sequence: 420

GC content: 42.9%

Sense strand siRNA: UCACUGUAGUAGUAGCUGGtt

Antisense strand siRNA: CCAGCUACUACUACAGUGAtt

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Target sequence 34: AAAGAGAAATCTGTGACTCCA

[Blast search](#) (in new window)

Position in gene sequence: 441

GC content: 38.1%

Sense strand siRNA: AGAGAAAUCUGUGACUCCAtt

Antisense strand siRNA: UGGAGUCACAGAUUUCUCUtt

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Target sequence 35: AAATCTGTGACTCCAATTAGC

[Blast search](#) (in new window)

Position in gene sequence: 447

GC content: 38.1%

Sense strand siRNA: AUCUGUGACUCCAAUUAGCtt

Antisense strand siRNA: GCUAAUUGGAGUCACAGAUtt

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USSN 10/738,413

EXHIBIT 1

Target sequence 36: AATTAGCCAGTTCCTGCAGAC

Blast search (in new window)

Position in gene sequence: 461

GC content: 47.6%

Sense strand siRNA: UUAGCCAGUCCUGCAGACtt

Antisense strand siRNA: GUCUGCAGGAACUGGCUAAtt

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Target sequence 37: AAGAATGCTCCTGGCTGTTTT

Blast search (in new window)

Position in gene sequence: 499

GC content: 42.9%

Sense strand siRNA: GAAUGCUCCUGGCUGUUUtt

Antisense strand siRNA: AAAACAGCCAGGAGCAUUCtt

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Target sequence 38: AATGCTCCTGGCTGTTTTGTA

Blast search (in new window)

Position in gene sequence: 502

GC content: 42.9%

Sense strand siRNA: UGCUCCUGGCUGUUUUUUAAtt

Antisense strand siRNA: UACAAAACAGCCAGGAGCAAtt

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Target sequence 39: AAGAACCTGATGGAGAAGGAA

Blast search (in new window)

Position in gene sequence: 584

GC content: 42.9%

Sense strand siRNA: GAACCUGAUGGAGAAGGAAtt

Antisense strand siRNA: UUCCUUCUCCAUCAGGUUCtt

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Target sequence 40: AACCTGATGGAGAAGGAATGC

Blast search (in new window)

Position in gene sequence: 587

GC content: 47.6%

Sense strand siRNA: CCUGAUGGAGAAGGAAUGCtt

Antisense strand siRNA: GCAUCCUUCUCCAUCAGGtt

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Target sequence 41: AAGGAATGCTGTCCACCGTGG

Blast search (in new window)

Position in gene sequence: 599

GC content: 57.1%

USSN 10/738,413

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Sense strand siRNA: GGAAUGCUGUCCACCGUGGtt

Antisense strand siRNA: CCACGGUGGACAGCAUUCctt

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Target sequence 42: AATGCTGTCCACCGTGGAGCG

[Blast search](#) (in new window)

Position in gene sequence: 603

GC content: 61.9%

Sense strand siRNA: UGCUGUCCACCGUGGAGCGtt

Antisense strand siRNA: CGCUCCACGGUGGACAGCAtt

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Target sequence 43: AATATCCTTCTGTCCAATGCA

[Blast search](#) (in new window)

Position in gene sequence: 671

GC content: 38.1%

Sense strand siRNA: UAUCCUUCUGUCCAAUGCAtt

Antisense strand siRNA: UGCAUUGGACAGAAGGAUAtt

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Target sequence 44: AATGCACCACTTGGGCCTCAA

[Blast search](#) (in new window)

Position in gene sequence: 686

GC content: 52.4%

Sense strand siRNA: UGCACCACUUGGGCCUCAAtt

Antisense strand siRNA: UUGAGGCCCAAGUGGUGCAtt

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Target sequence 45: AATTTCCCTTCACAGGGGTGG

[Blast search](#) (in new window)

Position in gene sequence: 705

GC content: 52.4%

Sense strand siRNA: UUUCCCUUCACAGGGGUGGtt

Antisense strand siRNA: CCACCCCUUGUGAAGGGAAAtt

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Target sequence 46: AATAGGACCTGCCAGTGCTCT

[Blast search](#) (in new window)

Position in gene sequence: 758

GC content: 52.4%

Sense strand siRNA: UAGGACCUGCCAGUGCUCttt

Antisense strand siRNA: AGAGCACUGGCAGGUCCUAtt

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USSN 10/738,413

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Target sequence 47: AACTTCATGGGATTCAACTGT

Blast search (in new window)

Position in gene sequence: 782

GC content: 38.1%

Sense strand siRNA: CUUCAUGGGAUUCAACUGUtt

Antisense strand siRNA: ACAGUUGAALCCCAUGAAGtt

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Target sequence 48: AACTGTGGAACTGCAAGTTT

Blast search (in new window)

Position in gene sequence: 797

GC content: 38.1%

Sense strand siRNA: CUGUGGAAACUGCAAGUUUtt

Antisense strand siRNA: AAACUUGCAGUUUCCACAGtt

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Target sequence 49: AAACGCAAGTTTGGCTTTTG

Blast search (in new window)

Position in gene sequence: 805

GC content: 38.1%

Sense strand siRNA: ACUGCAAGUUUGGCUUUUGtt

Antisense strand siRNA: CAAAAGCCAAACUUGCAGUtt

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Target sequence 50: AAGTTTGGCTTTGGGGACCA

Blast search (in new window)

Position in gene sequence: 812

GC content: 47.6%

Sense strand siRNA: GUUUGGCUUUUGGGGACCatt

Antisense strand siRNA: UGGUCCCCAAAAGCCAAActt

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Target sequence 51: AAACGACAGAGAGACGACT

Blast search (in new window)

Position in gene sequence: 832

GC content: 47.6%

Sense strand siRNA: ACUGCACAGAGAGACGACUtt

Antisense strand siRNA: AGUCGUCUCUCUGUGCAGUtt

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Target sequence 52: AAGAAACATCTTCGATTGAG

Blast search (in new window)

Position in gene sequence: 862

GC content: 33.3%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: GAAACAUCUUCGAUUUGAGtt
Antisense strand siRNA: CUCAAAUCGAAGAUGUUUCtt

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Target sequence 53: AAACATCTTCGATTGAGTGC

[Blast search](#) (in new window)

Position in gene sequence: 865

GC content: 38.1%

Sense strand siRNA: ACAUCUUCGAUUUGAGUGCtt

Antisense strand siRNA: GCACUCAAAUCGAAGAUGUtt

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Target sequence 54: AAGGACAAATTTTTCCTAC

[Blast search](#) (in new window)

Position in gene sequence: 893

GC content: 33.3%

Sense strand siRNA: GGACAAAUUUUUUGCCUACTt

Antisense strand siRNA: GUAGGCCAAAAAUUGUCCtt

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Target sequence 55: AAATTTTTCCTACCTCACT

[Blast search](#) (in new window)

Position in gene sequence: 899

GC content: 33.3%

Sense strand siRNA: AUUUUUUGCCUACCLUCACUtt

Antisense strand siRNA: AGUGAGGUAGGCCAAAAAUtt

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Target sequence 56: AAAGCATACCATCAGCTCAGA

[Blast search](#) (in new window)

Position in gene sequence: 925

GC content: 42.9%

Sense strand siRNA: AGCAUACCAUCAGCUCAGAtt

Antisense strand siRNA: UCUGAGCUGAUGGUAUGCtt

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Target sequence 57: AAATGAAAAATGGATCAACAC

[Blast search](#) (in new window)

Position in gene sequence: 975

GC content: 28.6%

Sense strand siRNA: AUGAAAAAUGGAUCAACActt

Antisense strand siRNA: GUGUUGAUCCAUUUUUCAUtt

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Target sequence 58: AAAAATGGATCAACACCCCATG

Blast search (in new window)

Position in gene sequence: 980

GC content: 38.1%

Sense strand siRNA: AAAUGGAUCAACACCCAUGtt

Antisense strand siRNA: CAUGGGUGUUGAUCCAUUtt

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Target sequence 59: AAATGGATCAACACCCCATGTT

Blast search (in new window)

Position in gene sequence: 982

GC content: 38.1%

Sense strand siRNA: AUGGAUCAACACCCAUGUtt

Antisense strand siRNA: AACAUUGGGUGUUGAUCCAUtt

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Target sequence 60: AACACCCATGTTTAACGACAT

Blast search (in new window)

Position in gene sequence: 991

GC content: 38.1%

Sense strand siRNA: CACCCAUGUUUUAACGACAUtt

Antisense strand siRNA: AUGUCGUUAAACAUGGGUGtt

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Target sequence 61: AACGACATCAATATTTATGAC

Blast search (in new window)

Position in gene sequence: 1004

GC content: 28.6%

Sense strand siRNA: CGACAUCAUAUUUUAUGACtt

Antisense strand siRNA: GUCAUAAAUAUUGAUGUCGtt

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Target sequence 62: AATATTTATGACCTCTTTGTC

Blast search (in new window)

Position in gene sequence: 1013

GC content: 28.6%

Sense strand siRNA: UAUUUUAUGACCUCUUUGUCh

Antisense strand siRNA: GACAAAGAGGUCAUAAAUAtt

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View corresponding insert sequences for an siRNA expression vector (e.g., pSilencer™)

Target sequence 63: AATGGATGCACTGCTTGGGGG

Blast search (in new window)

Position in gene sequence: 1054

GC content: 57.1%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: UGGAUGCACUGCUUGGGGGtt

Antisense strand siRNA: CCCCCAAGCAGUGCAUCCatt

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Target sequence 64: AAATCTGGAGAGACATTGATT

[Blast search](#) (in new window)

Position in gene sequence: 1080

GC content: 33.3%

Sense strand siRNA: AUCUGGAGAGACAUUGAUUtt

Antisense strand siRNA: AAUCAAUUCUCUCCAGAUtt

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Target sequence 65: AAGCACCAGCTTTTCTGCCTT

[Blast search](#) (in new window)

Position in gene sequence: 1110

GC content: 47.6%

Sense strand siRNA: GCACCAGCUUUUCUGCCUtt

Antisense strand siRNA: AAGGCAGAAAAGCUGGUGCtt

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Target sequence 66: AACAAGAAATCCAGAAGCTGA

[Blast search](#) (in new window)

Position in gene sequence: 1158

GC content: 38.1%

Sense strand siRNA: CAAGAAAUCCAGAAGCUGAtt

Antisense strand siRNA: UCAGCUUCUGGAUUUCUUGtt

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Target sequence 67: AAGAAATCCAGAAGCTGACAG

[Blast search](#) (in new window)

Position in gene sequence: 1161

GC content: 42.9%

Sense strand siRNA: GAAAUCCAGAAGCUGACAGtt

Antisense strand siRNA: CUGUCAGCUUCUGGAUUUtt

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Target sequence 68: AAATCCAGAAGCTGACAGGAG

[Blast search](#) (in new window)

Position in gene sequence: 1164

GC content: 47.6%

Sense strand siRNA: AUCCAGAAGCUGACAGGAGtt

Antisense strand siRNA: CUCCUGUCAGCUUCUGGAUtt

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EXHIBIT 1

Target sequence 69: AAGCTGACAGGAGATGAAAAC

Blast search (in new window)

Position in gene sequence: 1172

GC content: 42.9%

Sense strand siRNA: GCUGACAGGAGAUGAAAACtt

Antisense strand siRNA: GUUUUCAUCUCCUGUCAGCtt

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Target sequence 70: AAAACTTCACTATTCCATATT

Blast search (in new window)

Position in gene sequence: 1188

GC content: 23.8%

Sense strand siRNA: AACUUCACUAUUCCAUAIUtt

Antisense strand siRNA: AAUAUGGAAUAGUGAAGUtt

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Target sequence 71: AACTTCACTATTCCATATTGG

Blast search (in new window)

Position in gene sequence: 1190

GC content: 33.3%

Sense strand siRNA: CUUCACUAUUCCAUAIUUGGtt

Antisense strand siRNA: CCAAUAIUGGAAUAGUGAAGtt

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Target sequence 72: AAAAGTGTGACATTTGCACAG

Blast search (in new window)

Position in gene sequence: 1227

GC content: 38.1%

Sense strand siRNA: AAGUGUGACAUUUGCACAGtt

Antisense strand siRNA: CUGUGCAAAUGUCACACUtt

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Target sequence 73: AAGTGTGACATTTGCACAGAT

Blast search (in new window)

Position in gene sequence: 1229

GC content: 38.1%

Sense strand siRNA: GUGUGACAUUUGCACAGAUtt

Antisense strand siRNA: AUCUGUGCAAAUGUCACACtt

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Target sequence 74: AAATCCTAACTTACTCAGCCC

Blast search (in new window)

Position in gene sequence: 1276

GC content: 42.9%

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EXHIBIT 1

Sense strand siRNA: AUCCUAACUACUCAGCCctt

Antisense strand siRNA: GGGCUGAGUAAGUUAGGAUtt

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Target sequence 75: AACTTACTCAGCCCAGCATCA

Blast search (in new window)

Position in gene sequence: 1283

GC content: 47.6%

Sense strand siRNA: CUUACUCAGCCCAGCAUcatt

Antisense strand siRNA: UGAUGCUGGGCUGAGUAAGtt

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Target sequence 76: AACAGCCATCAGTCTTTATGC

Blast search (in new window)

Position in gene sequence: 1349

GC content: 42.9%

Sense strand siRNA: CAGCCAUCAGUCUUUAUGctt

Antisense strand siRNA: GCAUAAAGACUGAUGGCUGtt

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Target sequence 77: AATGGAACGCCCGAGGGACCT

Blast search (in new window)

Position in gene sequence: 1370

GC content: 61.9%

Sense strand siRNA: UGGAACGCCCGAGGGACCUtt

Antisense strand siRNA: AGGUCCCUCGGGCGUCCatt

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Target sequence 78: AACGCCCCGAGGGACCTTTACG

Blast search (in new window)

Position in gene sequence: 1375

GC content: 61.9%

Sense strand siRNA: CGCCCCGAGGGACCUUUACgtt

Antisense strand siRNA: CGUAAAGGUCCCUCGGGCGtt

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Target sequence 79: AATCCTGGAAACCATGACAAA

Blast search (in new window)

Position in gene sequence: 1400

GC content: 38.1%

Sense strand siRNA: UCCUGGAAACCAUGACAAatt

Antisense strand siRNA: UUUGUCAUGGUUCCAGGatt

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Target sequence 80: AAACCATGACAAATCCAGAAC

Blast search (in new window)

Position in gene sequence: 1408

GC content: 38.1%

Sense strand siRNA: ACCAUGACAAAUCCAGAACTt

Antisense strand siRNA: GUUCUGGAUUUGUCAUGGutt

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Target sequence 81: AAATCCAGAACCCCAAGGCTC

Blast search (in new window)

Position in gene sequence: 1418

GC content: 52.4%

Sense strand siRNA: AUCCAGAACCCCAAGGCUctt

Antisense strand siRNA: GAGCCUUGGGGUUCUGGAutt

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Target sequence 82: AACCCCAAGGCTCCCCTCTTC

Blast search (in new window)

Position in gene sequence: 1426

GC content: 61.9%

Sense strand siRNA: CCCCAAGGCUCCCCUCUUCtt

Antisense strand siRNA: GAAGAGGGGAGCCUUGGGGtt

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Target sequence 83: AAGGCTCCCCTCTTCAGCTGA

Blast search (in new window)

Position in gene sequence: 1432

GC content: 57.1%

Sense strand siRNA: GGCUCUUUCUUCAGCUGAtt

Antisense strand siRNA: UCAGCUGAAGAGGGGAGCCtt

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Target sequence 84: AATTTTGCCTGAGTTTGACCC

Blast search (in new window)

Position in gene sequence: 1458

GC content: 42.9%

Sense strand siRNA: UUUUGCCUGAGUUUGACCCtt

Antisense strand siRNA: GGGUCAAAACUCAGGCAAAAtt

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Target sequence 85: AATATGAATCTGGTTCCATGG

Blast search (in new window)

Position in gene sequence: 1479

GC content: 38.1%

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Sense strand siRNA: UAUGAAUCUGGUUCCAUGGtt

Antisense strand siRNA: CCAUGGAACCAGAUUCAUatt

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Target sequence 86: AATCTGTTCCATGGATAAAG

Blast search (in new window)

Position in gene sequence: 1485

GC content: 38.1%

Sense strand siRNA: UCUGGUUCCAUGGAUAAAGtt

Antisense strand siRNA: CUUUAUCCAUGGAACCAGatt

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Target sequence 87: AAAGCTGCCAATTTAGCTTT

Blast search (in new window)

Position in gene sequence: 1502

GC content: 38.1%

Sense strand siRNA: AGCUGCCAAUUCAGCUUtt

Antisense strand siRNA: AAAGCUGAAAUUGGCAGCUtt

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Target sequence 88: AATTCAGCTTTAGAAATACA

Blast search (in new window)

Position in gene sequence: 1511

GC content: 23.8%

Sense strand siRNA: UUUCAGCUUUAGAAAUACatt

Antisense strand siRNA: UGUUUUUCUAAAGCUGAAAtt

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Target sequence 89: AAATACACTGGAAGGATTTGC

Blast search (in new window)

Position in gene sequence: 1525

GC content: 38.1%

Sense strand siRNA: AUACACUGGAAGGAUUUGCtt

Antisense strand siRNA: GCAAAUCCUCCAGUGUAUtt

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Target sequence 90: AAGGATTTGCTAGTCCACTTA

Blast search (in new window)

Position in gene sequence: 1536

GC content: 38.1%

Sense strand siRNA: GGAUUUGCUAGUCCACUAtt

Antisense strand siRNA: UAAGUGGACUAGCAAAUCCtt

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Target sequence 91: AAAGCAGCATGCACAATGCCT

Blast search (in new window)

Position in gene sequence: 1578

GC content: 47.6%

Sense strand siRNA: AGCAGCAUGCACAAUGCCUtt

Antisense strand siRNA: AGGCAUUGUGCAUGCUGCUtt

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Target sequence 92: AATGCCTTGCACATCTATATG

Blast search (in new window)

Position in gene sequence: 1592

GC content: 38.1%

Sense strand siRNA: UGCCUUGCACAUCUAUAUGtt

Antisense strand siRNA: CAUAUAGAUGUGCAAGGCatt

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Target sequence 93: AATGGAACAATGTCCCAGGTA

Blast search (in new window)

Position in gene sequence: 1613

GC content: 42.9%

Sense strand siRNA: UGGAACAAUGUCCCAGGUatt

Antisense strand siRNA: UACCUGGGACAUUGUCCatt

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Target sequence 94: AACAAATGTCCCAGGTACAGGG

Blast search (in new window)

Position in gene sequence: 1618

GC content: 52.4%

Sense strand siRNA: CAAUGUCCCAGGUACAGGGtt

Antisense strand siRNA: CCCUGUACCUGGGACAUUGtt

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Target sequence 95: AATGTCCCAGGTACAGGGATC

Blast search (in new window)

Position in gene sequence: 1621

GC content: 52.4%

Sense strand siRNA: UGUCCCAGGUACAGGGGAUCtt

Antisense strand siRNA: GAUCCCUGUACCUGGGGACatt

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Target sequence 96: AACGATCCTATCTTCCTTCTT

Blast search (in new window)

Position in gene sequence: 1646

GC content: 38.1%

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EXHIBIT 1

Sense strand siRNA: CGAUCCUAUCUCCUUCUUt

Antisense strand siRNA: AAGAAGGAAGAUAGGAUCGtt

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Target sequence 97: AAGGCACCGTCCTCTTCAAGA

[Blast search](#) (in new window)

Position in gene sequence: 1708

GC content: 52.4%

Sense strand siRNA: GGCACCGUCCUCUUAAGAtt

Antisense strand siRNA: UCUUGAAGAGGACGGUGCCtt

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Target sequence 98: AAGAAGTTTATCCAGAAGCCA

[Blast search](#) (in new window)

Position in gene sequence: 1725

GC content: 38.1%

Sense strand siRNA: GAAGUUUAUCCAGAAGCCAtt

Antisense strand siRNA: UGGCUUCUGGAUAAACUUCtt

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Target sequence 99: AAGTTTATCCAGAAGCCAATG

[Blast search](#) (in new window)

Position in gene sequence: 1728

GC content: 38.1%

Sense strand siRNA: GUUUAUCCAGAAGCCAAUGtt

Antisense strand siRNA: CAUUGGCUUCUGGAUAAACtt

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Target sequence 100: AAGCCAATGCACCCATTGGAC

[Blast search](#) (in new window)

Position in gene sequence: 1740

GC content: 52.4%

Sense strand siRNA: GCCAAUGCACCCAUUGGACtt

Antisense strand siRNA: GUCCAAUGGGUGCAUUGGCTt

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Target sequence 101: AATGCACCCATTGGACATAAC

[Blast search](#) (in new window)

Position in gene sequence: 1745

GC content: 42.9%

Sense strand siRNA: UGCACCCAUUGGACAUAACTt

Antisense strand siRNA: GUUAUGUCCAAUGGGUGCAtt

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Target sequence 102: AACCGGGAATCCTACATGGTT

Blast search (in new window)

Position in gene sequence: 1763

GC content: 47.6%

Sense strand siRNA: CCGGGAAUCCUACAUGGUUtt

Antisense strand siRNA: AACCAUGUAGGAUCCCCGGtt

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Target sequence 103: AATCCTACATGGTTCCTTTTA

Blast search (in new window)

Position in gene sequence: 1770

GC content: 33.3%

Sense strand siRNA: UCCUACAUGGUUCCUUUUUAtt

Antisense strand siRNA: UAAAAGGAACCAUGUAGGAtt

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Target sequence 104: AAATGGTGATTCTTTATTTTC

Blast search (in new window)

Position in gene sequence: 1804

GC content: 23.8%

Sense strand siRNA: AUGGUGAUUUCUUUUAUUUctt

Antisense strand siRNA: GAAAUAAAGAAUACCAUtt

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Target sequence 105: AAAGATCTGGGCTATGACTAT

Blast search (in new window)

Position in gene sequence: 1829

GC content: 38.1%

Sense strand siRNA: AGAUCUGGGCUAUGACUAUtt

Antisense strand siRNA: AUAGUCAUAGCCCAGAUctt

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Target sequence 106: AAGATTCAGACCCAGACTCTT

Blast search (in new window)

Position in gene sequence: 1860

GC content: 42.9%

Sense strand siRNA: GAUUCAGACCCAGACUCUtt

Antisense strand siRNA: AAGAGUCUGGGUCUGAAUctt

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Target sequence 107: AAGACTACATTAAGTCCTATT

Blast search (in new window)

Position in gene sequence: 1884

GC content: 28.6%

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Sense strand siRNA: GACUACAUUAAGUCCUAUUt

Antisense strand siRNA: AAUAGGACUUAUUGUAGUCt

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.....
Target sequence 108: AAGTCCTATTGGAACAAGCG

Blast search (in new window)

Position in gene sequence: 1895

GC content: 42.9%

Sense strand siRNA: GUCCUAUUUGGAACAAGCGt

Antisense strand siRNA: CGCUUGUCCAAAUAGGACt

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.....
Target sequence 109: AACAAGCGAGTCGGATCTGGT

Blast search (in new window)

Position in gene sequence: 1908

GC content: 52.4%

Sense strand siRNA: CAAGCGAGUCGGAUCUGGt

Antisense strand siRNA: ACCAGAUCGACUCGCUUGt

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.....
Target sequence 110: AAGCGAGTCGGATCTGGTCAT

Blast search (in new window)

Position in gene sequence: 1911

GC content: 52.4%

Sense strand siRNA: GCGAGUCGGAUCUGGUCAUt

Antisense strand siRNA: AUGACCAGAUCCGACUCGCt

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.....
Target sequence 111: AAGAGAAAGCAGCTTCCTGAA

Blast search (in new window)

Position in gene sequence: 2009

GC content: 42.9%

Sense strand siRNA: GAGAAAGCAGCUUCCUGAAt

Antisense strand siRNA: UUCAGGAAGCUGCUUUCUCt

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.....
Target sequence 112: AAAGCAGCTTCCTGAAGAAAA

Blast search (in new window)

Position in gene sequence: 2014

GC content: 38.1%

Sense strand siRNA: AGCAGCUUCCUGAAGAAAAt

Antisense strand siRNA: UUUUCUUCAGGAAGCUGCUt

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Target sequence 113: AAGAAAAGCAGCCACTCCTCA

Blast search (in new window)

Position in gene sequence: 2028

GC content: 47.6%

Sense strand siRNA: GAAAAGCAGCCACUCCUCatt

Antisense strand siRNA: UGAGGAGUGGCUGCUUUUctt

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Target sequence 114: AAAAGCAGCCACTCCTCATGG

Blast search (in new window)

Position in gene sequence: 2031

GC content: 52.4%

Sense strand siRNA: AAGCAGCCACUCCUCAUGGtt

Antisense strand siRNA: CCAUGAGGAGUGGCUGCUUtt

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Target sequence 115: AAGCAGCCACTCCTCATGGAG

Blast search (in new window)

Position in gene sequence: 2033

GC content: 57.1%

Sense strand siRNA: GCAGCCACUCCUCAUGGAGtt

Antisense strand siRNA: CUCCAUGAGGAGUGGCUGCtt

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Target sequence 116: AAAGAGGATTACCACAGCTTG

Blast search (in new window)

Position in gene sequence: 2054

GC content: 42.9%

Sense strand siRNA: AGAGGAUUACCACAGCUUGtt

Antisense strand siRNA: CAAGCUGUGGUAUCCUCUtt

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Target sequence 117: AAAAGGCTTAGGCAATAGAGT

Blast search (in new window)

Position in gene sequence: 2091

GC content: 38.1%

Sense strand siRNA: AAGGCUUAGGCAAUAGAGUtt

Antisense strand siRNA: ACUCUAUUGCCUAAGCCUtt

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Target sequence 118: AAGGCTTAGGCAATAGAGTAG

Blast search (in new window)

Position in gene sequence: 2093

GC content: 42.9%

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EXHIBIT 1

Sense strand siRNA: GGCUUAGGCCAAUAGAGUAGtt

Antisense strand siRNA: CUACUCUAUUGCCUAAGCCtt

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Target sequence 119: AATAGAGTAGGGCCAAAAAGC

[Blast search](#) (in new window)

Position in gene sequence: 2104

GC content: 42.9%

Sense strand siRNA: UAGAGUAGGGCCAAAAAGCtt

Antisense strand siRNA: GCUUUUUGGCCCUACUCUAtt

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Target sequence 120: AAAAAGCCTGACCTCACTCTA

[Blast search](#) (in new window)

Position in gene sequence: 2118

GC content: 42.9%

Sense strand siRNA: AAAGCCUGACCUCACUCUAtt

Antisense strand siRNA: UAGAGUGAGGUCAGGCUUtt

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Target sequence 121: AAAGCCTGACCTCACTCTAAC

[Blast search](#) (in new window)

Position in gene sequence: 2120

GC content: 47.6%

Sense strand siRNA: AGCCUGACCUCACUCUAACTt

Antisense strand siRNA: GUUAGAGUGAGGUCAGGCtt

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Target sequence 122: AACTCAAAGTAATGTCCAGGT

[Blast search](#) (in new window)

Position in gene sequence: 2138

GC content: 38.1%

Sense strand siRNA: CUCAAAGUAAUGUCCAGGtt

Antisense strand siRNA: ACCUGGACAUUACUUUGAGtt

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Target sequence 123: AAAGTAATGTCCAGGTTCCCA

[Blast search](#) (in new window)

Position in gene sequence: 2143

GC content: 42.9%

Sense strand siRNA: AGUAAUGUCCAGGUUCCCAtt

Antisense strand siRNA: UGGGAACCUGGACAUUACUtt

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USSN 10/738,413

EXHIBIT 1

Target sequence 124: AATGTCCAGGTTCCAGAGAA

Blast search (in new window)

Position in gene sequence: 2148

GC content: 47.6%

Sense strand siRNA: UGUCCAGGUUCCCAGAGAAtt

Antisense strand siRNA: UUCUCUGGGAACCUGGACAtt

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Target sequence 125: AATATCTGCTGGTATTTTCT

Blast search (in new window)

Position in gene sequence: 2167

GC content: 28.6%

Sense strand siRNA: UAUCUGCUGGUUUUUUUCUtt

Antisense strand siRNA: AGAAAAAUACCAGCAGAUAtt

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Target sequence 126: AAAGACCATTTCGCAAAATTGT

Blast search (in new window)

Position in gene sequence: 2190

GC content: 28.6%

Sense strand siRNA: AGACCAUUUGCAAAAUUGUtt

Antisense strand siRNA: ACAAUUUUGCAAAUGGUCUtt

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Target sequence 127: AAAATTGTAACCTAATACAAA

Blast search (in new window)

Position in gene sequence: 2203

GC content: 19%

Sense strand siRNA: AAUUGUAACCUAAUACAAAtt

Antisense strand siRNA: UUUGUAUUAGGUUACAAUtt

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Target sequence 128: AATTGTAACCTAATACAAAGT

Blast search (in new window)

Position in gene sequence: 2205

GC content: 23.8%

Sense strand siRNA: UUGUAACCUAAUACAAAGUtt

Antisense strand siRNA: ACUUUGUAUUAGGUUACAAtt

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Target sequence 129: AACCTAATACAAAGTGTAGCC

Blast search (in new window)

Position in gene sequence: 2211

GC content: 38.1%

USSN 10/738,413

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Sense strand siRNA: CCUAAUACAAAGUGUAGCCtt

Antisense strand siRNA: GGCUACACUUUGUAUUAGGtt

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Target sequence 130: AATACAAAGTGTAGCCTTCTT

[Blast search](#) (in new window)

Position in gene sequence: 2216

GC content: 33.3%

Sense strand siRNA: UACAAAGUGUAGCCUUCUtt

Antisense strand siRNA: AAGAAGGCUACACUUUGUAtt

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Target sequence 131: AAAGTGTAGCCTTCTTCCAAC

[Blast search](#) (in new window)

Position in gene sequence: 2221

GC content: 42.9%

Sense strand siRNA: AGUGUAGCCUUCUCCAActt

Antisense strand siRNA: GUUGGAAGAAGGCUACACUtt

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Target sequence 132: AACTCAGGTAGAACACACCTG

[Blast search](#) (in new window)

Position in gene sequence: 2239

GC content: 47.6%

Sense strand siRNA: CUCAGGUAGAACACACCUGtt

Antisense strand siRNA: CAGGUGUGUUCUACCUGAGtt

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Target sequence 133: AACACACCTGTCTTTGTCTTG

[Blast search](#) (in new window)

Position in gene sequence: 2250

GC content: 42.9%

Sense strand siRNA: CACACCUGUCUUUGUCUUGtt

Antisense strand siRNA: CAAGACAAAGACAGGUGUGtt

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Target sequence 134: AACATTTTCCCCTAAGCCCAT

[Blast search](#) (in new window)

Position in gene sequence: 2292

GC content: 42.9%

Sense strand siRNA: CAUUUUCCCCUAAGCCCAUtt

Antisense strand siRNA: AUGGGCUUAGGGGAAAAUGtt

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USSN 10/738,413

EXHIBIT 1

Target sequence 135: AAGCCCATATGTCTAAGGAAA

[Blast search](#) (in new window)

Position in gene sequence: 2305

GC content: 38.1%

Sense strand siRNA: GCCCAUAUGUCUAAGGAAAtt

Antisense strand siRNA: UUUCCUAGACAU AUGGGCtt

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Target sequence 136: AAGGAAAGGATGCTATTTGGT

[Blast search](#) (in new window)

Position in gene sequence: 2319

GC content: 38.1%

Sense strand siRNA: GGAAAGGAUGCUAUUUGGtt

Antisense strand siRNA: ACCAAUAGCAUCCUUCtt

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Target sequence 137: AAAGGATGCTATTTGGTAATG

[Blast search](#) (in new window)

Position in gene sequence: 2323

GC content: 33.3%

Sense strand siRNA: AGGAUGCUAUUUGGUAUGtt

Antisense strand siRNA: CAUUACCAAAUAGCAUCCtt

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Target sequence 138: AATGAGGAAGTGTATTTGTA

[Blast search](#) (in new window)

Position in gene sequence: 2340

GC content: 28.6%

Sense strand siRNA: UGAGGAACUGUUAUUUGUAtt

Antisense strand siRNA: UACAAUAAACAGUCCUCAtt

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Target sequence 139: AACTGTTATTTGTATGTGAAT

[Blast search](#) (in new window)

Position in gene sequence: 2347

GC content: 23.8%

Sense strand siRNA: CUGUUAUUUGUAUGUGAAUtt

Antisense strand siRNA: AUUCACAUACAAUAAACAGtt

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USSN 10/738,413

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